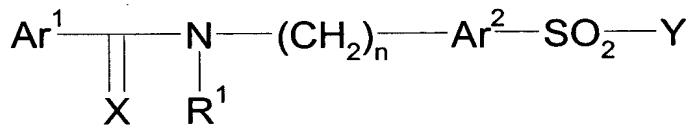


Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) Sulfonamide derivatives compounds according to formula I



I

with its geometrical isomers, in an optically active form as enantiomers, diastereomers, as well as in the form of racemates, as well as pharmaceutically acceptable salts thereof, wherein

$\text{Ar}^1$  and  $\text{Ar}^2$  are independently from each other substituted or unsubstituted aryl or heteroaryl groups,

X is O or S, preferably O;

$\text{R}^1$  is hydrogen or a C<sub>1</sub>-C<sub>6</sub>-alkyl group, or  $\text{R}^1$  forms a substituted or unsubstituted 5-6-membered saturated or unsaturated ring with  $\text{Ar}^1$ ;

n is an integer from 0 to 5, ~~preferably between 1-3 and most preferred 1~~;

Y within formula I is ~~an unsubstituted or a substituted 4-12 membered saturated cyclic or bicyclic alkyl containing at least one nitrogen atom a piperidino moiety, whereby one nitrogen atom within said ring is forming piperidino moiety forms a bond with the sulfonyl group of formula I thus providing a sulfonamide,~~

~~with the proviso that if  $\text{Ar}^1$  is 4-chlorophenyl, X is O,  $\text{R}^1$  is H,  $\text{Ar}^2$  is thienyl, and Y is not a piperidino group which is para-substituted by 2-hydroxyethyl-,~~

with the further proviso that if Ar<sup>1</sup> is phenyl-, X is O, R<sup>1</sup> is H, Ar<sup>2</sup> is thienyl, and Y is not a piperidino group which is substituted in its β position by a benzo (5,6) cyclohepta (1,2b) pyridine or a benzo (5,6) cyclohept (3,4)ene (1,2b) pyridine;

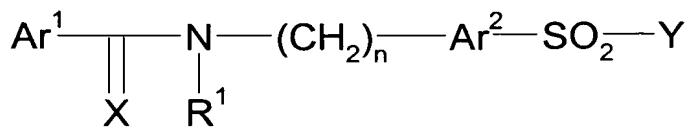
~~with the further proviso that if Y is a piperidino or a pyrrolidine group being substituted at the β position of the piperidino or a pyrrolidine nitrogen by a benzo[5,6]cyclohepta[1,2b]pyridine, or a benzo[5,6]cyclohept (3,4)ene [1,2b]pyridine, while Ar<sup>2</sup> is thienyl, X is oxygen, R<sup>1</sup> is hydrogen and n is 1, Ar<sup>3</sup> shall not be a phenyl group,~~

~~with the further proviso that if X is oxygen, R<sup>1</sup> is hydrogen and n is 1, while Y is a piperazine, said piperazine at the para nitrogen shall not be substituted by a group containing a benzamidine or a protected form thereof,~~

~~with the further proviso that the compounds 2-[2-(benzoylaminomethyl) thiophene]-5-sulfonyl] 1,2,3,5,6,7-hexahydro N,N-dipropyleclopent[f]isoindol-6-amine and N-[{5-[7-cyano-1,2,3,5-tetrahydro-1-(1H-imidazol-4-yl-methyl)-3-(phenylmethyl)-4H-1,4-benzodiazepin-4-yl]sulfonyl}-2-thienyl]-methyl] benzamide and its hydrochloride are excluded;~~

~~with the final proviso that if X is oxygen and Y is a 4-8 membered saturated cyclic alkyl containing one or two nitrogen atoms, Y shall not be substituted by a group (C=O)N(R,R') at the α position of the sulfonamide nitrogen.~~

2. (Currently Amended) A composition for treatment of disorders associated with the abnormal expression or activity of JNK comprising a ~~s~~sulfonamide derivatives compound according to formula I



I

with its geometrical isomers, in an optically active form as enantiomers, dia-stereomers, as well as in the form of racemates, as well as pharmaceutically acceptable salts thereof, wherein

Ar<sup>1</sup> and Ar<sup>2</sup> are independently from each other substituted or unsubstituted aryl or heteroaryl groups,

X is O or S, preferably O;

R<sup>1</sup> is hydrogen or a C<sub>1</sub>-C<sub>6</sub>-alkyl group, or R<sup>1</sup> forms a substituted or unsubstituted 5-6-membered saturated or unsaturated ring with Ar<sup>1</sup>;

n is an integer from 0 to 5, ~~preferably between 1-3 and most preferred 1~~;

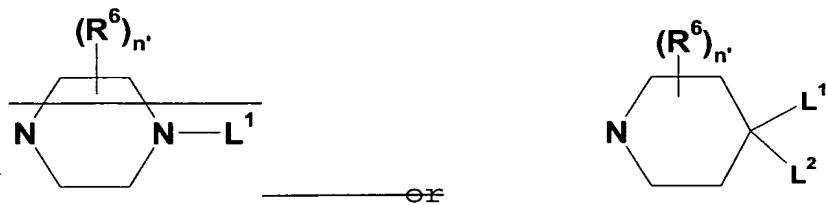
Y within formula I is a piperidino group ~~an unsubstituted or a substituted 4-12 membered saturated cyclic or bicyclic alkyl containing at least one nitrogen atom, whereby one nitrogen atom within said ring is forming a bond with the sulfonyl group of formula I thus providing a sulfonamide, for use as a medicament;~~

~~with the proviso that if Y is a piperidino or a pyrrolidino group being substituted at the β-position of the piperidino- or a pyrrolidino-nitrogen by a benzo[5, 6]cyclohepta[1, 2b]pyridine, or a benzo[5, 6]cyclohept (3,4) ene [1, 2b]pyridine, while Ar<sup>2</sup> is thienyl, X is oxygen, R<sup>1</sup> is hydrogen and n is 1, Ar<sup>1</sup> shall not be a phenyl group;~~

~~with the further proviso that if X is oxygen, R<sup>1</sup> is hydrogen and n is 1, while Y is a piperazine, said piperazine~~

at the para nitrogen shall not be substituted by a group containing a benzamidine or a protected form thereof, and a pharmaceutically acceptable carrier with the further proviso that the compounds 2-[2-(benzoylaminomethyl)-thio phenyl]-5-sulfonyl]-1,2,3,5,6,7-hexahydro-N,N-dipropylecyclopent[f]isoindol-6-amine and N-[5-[7-cyano-1,2,3,5-tetrahydro-1-(1H-imidazol-4-yl)methyl]-3-(phenylmethyl)-4H-1,4-benzodiazepin-4-ylsulfonyl]-2-thienyl]-methyl] benz amide and its hydrochloride are excluded; with the final proviso that if X is oxygen and Y is a 4-8 membered saturated cyclic alkyl containing one or two nitrogen atoms, Y shall not be substituted by a group  $(C=O)N(R, R')$  at the  $\alpha$ -position of the sulfonamide nitrogen.

3. (Currently Amended) A sulfonamide derivative compound according to claim 1 or 2, wherein Y is a piperazine or piperidino group of the general formula



whereby,  $L^1$  and  $L^2$  are independently selected from each other from the group comprising or consisting of H, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub>-aliphatic alkyl, substituted or unsubstituted C<sub>2</sub>-C<sub>6</sub>-alkenyl, substituted or unsubstituted C<sub>2</sub>-C<sub>6</sub>-alkynyl, substituted or unsubstituted cyclic C<sub>4</sub>-C<sub>8</sub>-alkyl optionally containing 1-3 heteroatoms and optionally fused with aryl or heteroaryl; or  $L^1$  and  $L^2$  are independently selected from the group comprising or consisting of substituted or unsubstituted aryl, substituted or

unsubstituted heteroaryl, aryl-C<sub>1</sub>-C<sub>6</sub>-alkyl, heteroaryl-C<sub>1</sub>-C<sub>6</sub>-alkyl, -C(O)-OR<sup>3</sup>, -C(O)-R<sup>3</sup>, -C(O)-NR<sup>3</sup>R<sup>3</sup>, -NR<sup>3</sup>R<sup>3</sup>, -NR<sup>3</sup>C(O)R<sup>3</sup>, -NR<sup>3</sup>C(O)NR<sup>3</sup>R<sup>3</sup>, -(SO)R<sup>3</sup>, -(SO<sub>2</sub>)R<sup>3</sup>, -NSO<sub>2</sub>R<sup>3</sup>, -SO<sub>2</sub>NR<sup>3</sup>R<sup>3</sup>,

with R<sup>3</sup>, R<sup>3</sup>' being substituents independently selected from the group comprising or consisting of H, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted or unsubstituted C<sub>2</sub>-C<sub>6</sub>-alkenyl, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, substituted or unsubstituted aryl-C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted or unsubstituted heteroaryl-C<sub>1</sub>-C<sub>6</sub>-alkyl;

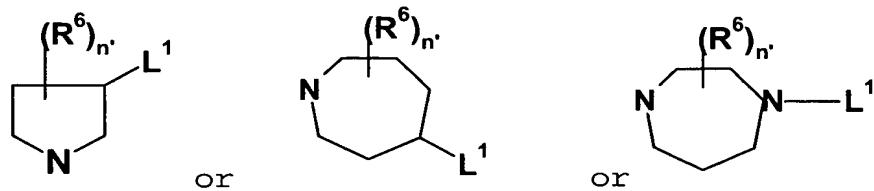
said aryl or heteroaryl groups being optionally substituted C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>2</sub>-C<sub>6</sub>-alkynyl, amino, acylamino, aminocarbonyl, C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl, aryl, carboxyl, cyano, halogen, hydroxy, nitro, sulfonyl, sulfoxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy,

or L<sup>1</sup> and L<sup>2</sup> taken together form a 4-8-membered, substituted or unsubstituted saturated cyclic alkyl or heteroalkyl group; and

R<sup>6</sup> is selected from the group comprising or consisting of hydrogen, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub>-alkoxy, OH, halogen, nitro, cyano, sulfonyl, oxo (=O), and

n' is an integer from 0 to 4, preferably 1 or 2.

4. (Withdrawn) A sulfonamide derivative according to claim 1 or 2, wherein Y is a pyrrolidine, an azepan or a 1,4-diazepan moiety of the below formulas



wherein L<sup>1</sup> is selected from the group comprising or consisting of H, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted or unsubstituted C<sub>2</sub>-C<sub>6</sub>-alkenyl, substituted or unsubstituted C<sub>2</sub>-C<sub>6</sub>-alkynyl, substituted or unsubstituted cyclic C<sub>4</sub>-C<sub>8</sub>-alkyl optionally containing 1-3 heteroatoms and optionally fused with aryl or heteroaryl; or L<sup>1</sup> and L<sup>2</sup> are independently selected from the group comprising or consisting of substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, aryl-C<sub>1</sub>-C<sub>6</sub>-alkyl, heteroaryl-C<sub>1</sub>-C<sub>6</sub>-alkyl, -C(O)-OR<sup>3</sup>, -C(O)-R<sup>3</sup>, -C(O)-NR<sup>3</sup>'R<sup>3</sup>, -NR<sup>3</sup>'R<sup>3</sup>, -NR<sup>3</sup>'C(O)R<sup>3</sup>, -NR<sup>3</sup>'C(O)NR<sup>3</sup>'R<sup>3</sup>, -(SO)R<sup>3</sup>, -(SO<sub>2</sub>)R<sup>3</sup>, -NSO<sub>2</sub>R<sup>3</sup>, -SO<sub>2</sub>NR<sup>3</sup>'R<sup>3</sup>;

R<sup>3</sup> and R<sup>3</sup>' are substituents independently selected from the group comprising or consisting of H, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted or unsubstituted C<sub>2</sub>-C<sub>6</sub>-alkenyl, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, substituted or unsubstituted aryl-C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted or unsubstituted heteroaryl-C<sub>1</sub>-C<sub>6</sub>-alkyl;

R<sup>6</sup> is selected from the group comprising or consisting of hydrogen, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub>-alkoxy, OH, halogen, nitro, cyano, sulfonyl, oxo (=O), sulfoxy, acyloxy, thioalkoxy and n' is an integer from 0 to 4, preferably 0.

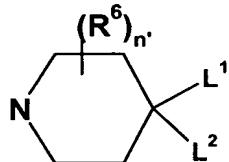
5. (Currently Amended) A sulfonamide derivative compound according to claim 1, wherein Ar<sup>1</sup> and Ar<sup>2</sup> are independently selected from the group comprising or consisting of phenyl, thiienyl, furyl, pyridyl, optionally substituted by C<sub>1</sub>-C<sub>6</sub>-alkyl, preferably trihalomethyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>2</sub>-C<sub>6</sub>-alkynyl, amino, acylamino, aminocarbonyl, C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl, aryl, carboxyl, cyano, halogen, hydroxy, nitro, sulfonyl, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy.

6. (Currently Amended) A sulfonamide derivative compound according to claim 5, wherein Ar<sup>1</sup> is an unsubstituted or substituted phenyl.

7. (Currently Amended) A sulfonamide derivative compound according to claim 5, wherein Ar<sup>2</sup> is an unsubstituted or substituted thienyl or furanyl group.

8. (Currently Amended) A sulfonamide derivative compound according to claim 1, wherein Ar<sup>1</sup> is selected from the group consisting of a 4-chlorophenyl, nitrophenyl, hydroxyphenyl, alkoxy phenyl, pyridyl, 3,4,-dihydroxyphenyl, thioxo-dihydropyridine or its tautomer, pyrazole and X is O, R<sup>1</sup> is hydrogen, n is 1, Ar<sup>2</sup> is thienyl or furanyl.

9. (Currently Amended) A sulfonamide derivative compound according to claim 8, wherein Y is



~~with  $(R^6)_n'$ ,  $L^1$  and  $L^2$  being as above defined.—~~  $(R^6)_n'$  selected from the group consisting of substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub> alkyl, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub> alkoxy, OH, halogen, nitric cyans, sulfonyl, compounds and oxo; n is an integer of from 0 to 4; and

~~Wherein L<sup>1</sup> and L<sup>2</sup> are independently selected from each other from the group consisting of H, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub>-aliphatic alkyl, substituted or unsubstituted C<sub>2</sub>-C<sub>6</sub> alkenyl, substituted or unsubstituted C<sub>2</sub>-C<sub>4</sub> alkyl optionally containing 1-3 heteroatoms and optionally fused with aryl or heteroaryl; or L<sup>1</sup> and L<sup>2</sup> are independently selected from the group consisting of substituted or~~

unsubstituted aryl, substituted or unsubstituted heteroaryl,  
aryl-C<sub>1</sub>-C<sub>4</sub> alkyl, heteroaryl-C<sub>1</sub>-C<sub>4</sub> alkyl, -C(O)-OR<sup>3</sup>, -C(O)-R<sup>3</sup>, -  
C(O)-NR<sup>3</sup>'R<sup>3</sup>, -NR<sup>3</sup>'C(O)R<sup>3</sup>, -NR<sup>3</sup>'-C(O)NR<sup>3</sup>'R<sup>3</sup>, -(SO)R<sup>3</sup>, -  
(SO<sub>2</sub>)R<sup>3</sup>, -NSO<sub>2</sub>R<sup>3</sup>, and -SO<sub>2</sub>NR<sup>3</sup>';

With R<sup>3</sup> and R<sup>3</sup>' being substituents independently selected from the group consisting of H, substituted or unsubstituted C<sub>1</sub>-C<sub>4</sub> alkyl, substituted or unsubstituted C<sub>2</sub>-C<sub>6</sub> alkenyl, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, substituted or unsubstituted aryl-C<sub>1</sub>-C<sub>4</sub>-alkyl, substituted or unsubstituted heteroaryl-C<sub>1</sub>-C<sub>6</sub>-alkyl;

Said aryl or heteroaryl groups being optionally substituted C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>2</sub>-C<sub>6</sub>-alkynyl, amino, acylamino, aminocarbonyl, C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl, aryl, carboxyl, cyano, halogen, hydroxy, nitro, sulfonyl, sulfoxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy; pr

L<sup>1</sup> and L<sup>2</sup> taken together form a 4-8 member substituted or unsubstituted saturated cyclic alkyl or heteroalkyl group.

10. (Currently Amended) A sulfonamide derivative compounds according to claim 9, wherein R<sup>6</sup> is H, L<sup>2</sup> is H, L<sup>1</sup> is a 5-membered cyclic group containing 3 heteroatoms, preferably a triazole ring which is preferably fused with an unsubstituted or substituted aryl or heteroaryl; or L<sup>1</sup> is -C(O)-R<sup>3</sup>, or -NHR<sup>3</sup>;

with R<sup>3</sup> being a substituent selected from the group comprising or consisting of C<sub>1</sub>-C<sub>12</sub>C<sub>6</sub>-alkyl, aryl, heteroaryl, aryl-C<sub>1</sub>-C<sub>6</sub>-alkyl, heteroaryl-C<sub>1</sub>-C<sub>6</sub>-alkyl;

said aryl or heteroaryl groups being optionally substituted by halogen, hydroxy, nitro, or sulfonyl.

11. (Currently Amended) A sulfonamide derivative compound according to claim 1, selected from the group consisting of:

~~4 chloro-N-[5-(piperazine-1-sulfonyl)-thiophen-2-ylmethyl] benzamide;~~

~~4-Chloro-N-{5-[4-(3-trifluoromethanesulfonyl-phenylamino)-piperidine-1-sulfonyl]-thiophen-2-ylmethyl}-benzamide;~~

~~4-chloro-N-({5-[(4-pyridin-2-yl)piperazin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide;~~

~~4-chloro-N-[(5-{[4-(4-fluorobenzoyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;~~

~~4-chloro-N-[{5-[(4-(trifluoromethyl)phenyl)piperazin-1-yl}sulfonyl]thien-2-yl]methyl)benzamide;~~

~~4-chloro-N-({5-[(4-(2-nitrophenyl)piperazin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide;~~

~~4-chloro-N-({5-[(4-(2-nitrophenyl)piperazin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide;~~

~~4-chloro-N-[{5-[(4-(2-furoyl)piperazin-1-yl)sulfonyl]thien-2-yl}methyl]benzamide;~~

~~4-chloro-N-[{5-[(4-(4-hydroxyphenyl)piperazin-1-yl)sulfonyl]thien-2-yl}methyl]benzamide;~~

~~4-chloro-N-[{5-[(4-(2-oxo-2-pyrrolidin-1-ylethyl)piperazin-1-yl)sulfonyl]thien-2-yl}methyl]benzamide;~~

~~4-chloro-N-[{5-[(4-(2-morpholin-4-yl-2-exoethyl)piperazin-1-yl)sulfonyl]thien-2-yl}methyl]benzamide;~~

~~4-chloro-N-[{5-[(4-(pyridin-4-ylmethyl)piperazin-1-yl)sulfonyl]thien-2-yl}methyl]benzamide;~~

~~4-chloro-N-[{5-[(4-(2-thien-2-ylethyl)piperazin-1-yl)sulfonyl]thien-2-yl}methyl]benzamide;~~

4-chloro-N-[(5-[4-(3,5-dimethoxyphenyl)piperazin-1-yl]sulfonyl)thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-[4-(cyclohexylmethyl)piperazin-1-yl]sulfonyl)thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-[4-(2-methoxyphenyl)piperazin-1-yl]sulfonyl)thien-2-yl)methyl]benzamide;

N-((5-[(4-benzylpiperazin-1-yl)sulfonyl]thien-2-yl)methyl)-4-chlorobenzamide;

4-chloro-N-[(5-[4-(2-phenylethyl)piperazin-1-yl]sulfonyl)thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-[4-(4-fluorobenzyl)piperazin-1-yl]sulfonyl)thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-[4-(2-cyanophenyl)piperazin-1-yl]sulfonyl)thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-[(4-chloro-3-(trifluoromethyl)phenyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-[4-(3-piperidin-1-ylpropyl)piperazin-1-yl]sulfonyl)thien-2-yl)methyl]benzamide;

4-chloro-N-((5-[(4-chloro-2-nitrophenyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

4-chloro-N-[(5-[4-(6-methylpyridin-2-yl)piperazin-1-yl]sulfonyl)thien-2-yl)methyl]benzamide;

4-chloro-N-((5-[(4-hydroxy-4-phenylpiperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-((5-[(4-benzoylpiperidin-1-yl)sulfonyl]thien-2-yl)methyl)-4-chlorobenzamide;

4-chloro-N-[(5-[(4-(2-oxo-2,3-dihydro-1H-benzimidazol-1-yl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

N- ({5-[(4-benzylpiperidin-1-yl)sulfonyl]thien-2-yl}methyl)-4-chlorobenzamide;

4-chloro-N-({5-[(4-oxo-1-phenyl-1,3,8-triazaspiro[4.5]de-8-yl)sulfonyl]thien-2-yl}methyl)benzamide;

4-chloro-N-({5-[(4-[2-(methylanilino)-2-oxoethyl]piperazin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide;

4-chloro-N-({5-[(4-[hydroxy(diphenyl)methyl]piperidin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide;

4-chloro-N-({5-[(4-[3-cyanopyrazin-2-yl)piperazin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide;

4-chloro-N-({5-[(4-[5-nitropyridin-2-yl)piperazin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide;

4-chloro-N-({5-[(4-[3-chloro-5-(trifluoromethyl)pyridin-2-yl)piperazin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide;

4-chloro-N-({5-[(4-[5-(trifluoromethyl)pyridin-2-yl)piperazin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide;

4-chloro-N-({5-[(4-[3-(trifluoromethyl)pyridin-2-yl)piperazin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide;

4-chloro-N-[(5-{[4-(2,4-difluorobenzoyl)piperidin-1-yl}sulfonyl]thien-2-yl)methyl]benzamide;

methyl-5-{4-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperazin-1-yl}-7-(trifluoromethyl)thieno[3,2-b]pyridine-3-carboxylate;

ethyl-2-{4-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperazin-1-yl}-5-cyano-6-methylnicotinate;

4-chloro-N-({5-[(4-[5-cyano-4,6-bis(dimethylamino)pyridin-2-yl)piperazin-1-yl}sulfonyl]thien-2-yl}methyl)benzamide;

4 chloro N {[5 ({4 [6 methyl 2  
(trifluoromethyl)quinolin 4 yl]piperazin 1 yl}sulfonyl)thien  
2 yl]methyl}benzamide,  
tert butyl 4 {[5 {[4  
chlorobenzoyl)amino]methyl}thien 2 yl)sulfonyl]piperazine 1  
carboxylate,  
2 {4 {[5 {[4 chlorobenzoyl)amino]methyl}thien 2  
yl)sulfonyl]piperazin 1 yl} 8 ethyl 5 exo 5,8  
dihydropyrido[2,3 d]pyrimidine 6 carboxylic acid,  
7 {4 {[5 {[4 chlorobenzoyl)amino]methyl}thien 2  
yl)sulfonyl]piperazin 1 yl} 1 ethyl 6 fluoro 4 exo 1,4  
dihydro[1,8]naphthyridine 3 carboxylic acid,  
7 {4 {[5 {[4 chlorobenzoyl)amino]methyl}thien 2  
yl)sulfonyl]piperazin 1 yl} 1 ethyl 6 fluoro 4 exo 1,4  
dihydroquinoline 3 carboxylic acid,  
4 chloro N [(5 {[4 (2,3 dihydro 1,4 benzodioxin 2  
ylearbonyl)piperazin 1 yl}sulfonyl)thien 2  
yl)methyl}benzamide,  
4 chloro N {[5 ({4 [(2E) 3 phenylprop 2  
enyl]piperazin 1 yl}sulfonyl)thien 2 yl]methyl}benzamide,  
4 chloro N [(5 {[4 (3 phenylpropyl)piperazin 1  
yl}sulfonyl)thien 2 yl]methyl}benzamide,  
4 chloro N [(5 {[4 (3,4,5  
trimethoxyphenyl)piperazin 1 yl}sulfonyl)thien 2  
yl)methyl}benzamide,  
N [(5 {[4 (4 tert butylbenzyl)piperazin 1  
yl}sulfonyl)thien 2 yl]methyl 4 chlorobenzamide,  
4 chloro N [(5 {[4 (4 fluorophenyl)piperazin 1  
yl}sulfonyl)thien 2 yl]methyl}benzamide,  
4 chloro N [(5 {[4 (2 hydroxyphenyl)piperazin 1  
yl}sulfonyl)thien 2 yl]methyl}benzamide,

4 chloro-N-[{5-[(4-(trifluoromethyl)pyridin-2-yl)piperazin-1-yl]sulfonyl}thien-2-yl]methyl]benzamide;

4 chloro-N-[{5-[(4-(5-cyanopyridin-2-yl)piperazin-1-yl)sulfonyl}thien-2-yl]methyl]benzamide;

tert-butyl 1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-ylcarbamate;

4 chloro-N-[(5-[(4-phenylpiperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-[(piperidin-1-ylsulfonyl)thien-2-yl]methyl]benzamide;

4 chloro-N-[(5-[(4-(1-naphthyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4 chloro-N-[(5-[(4-(3,4-dichlorophenyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4 chloro-N-[(5-[(4-[3-(trifluoromethyl)phenyl]piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-[(3-hydroxy-4-[(3-(trifluoromethyl)phenyl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4 chloro-N-[(5-[(4-(2-methylphenyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

N-[(5-[(1R,4R)-5-benzyl-2,5-diazabicyclo[2.2.1]hept-2-yl)sulfonyl]thien-2-yl)methyl]-4-chlorobenzamide;

N-[(5-[(4-(benzyloxy)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-4-chlorobenzamide;

4 chloro-N-[(5-[(4-(2-chlorodibenzo[b,f][1,4]oxazepin-11-yl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

N- (4-chlorophenyl) -2- (5- { [4- (2-oxo-2,3-dihydro-1H-benzimidazol-1-yl)piperidin-1-yl]sulfonyl }thien-2-yl)acetamide;

4-chloro-N- ({5- [(4-hydroxypiperidin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide;

~~N- [(5- {[4- (4-acetylphenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl] 4-chlorobenzamide;~~

~~4-chloro-N- [(5- {[4- (3,5-dichloropyridin-4-yl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;~~

~~4-chloro-N- [(5- {[4- (3-methoxyphenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;~~

N- ({5- [(4-benzyl-4-hydroxypiperidin-1-yl)sulfonyl]thien-2-yl}methyl)-4-chlorobenzamide;

N- { [5- ({4- [(2-tert-butyl-1H-indol-5-yl)amino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl }-4-chlorobenzamide;

4-chloro-N- { [5- ({4- [(phenylacetyl)amino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl }benzamide;

~~4-chloro-N- [(5- {[4- (tetrahydrofuran-2-yl)carbonyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;~~

~~4-chloro-N- [(5- {[4- (6-chloropyridin-2-yl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;~~

~~4-chloro-N- [(5- {[4- (4-chlorophenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;~~

N- [(5- {[4- (2H-1,2,3-benzotriazol-2-yl)piperidin-1-yl}sulfonyl)thien-2-yl]methyl)-4-chlorobenzamide;

4-chloro-N- [(5- {[4- (4-chlorobenzoyl)piperidin-1-yl}sulfonyl)thien-2-yl]methyl]benzamide;

4-chloro-N- ({5- [(4-phenoxy)piperidin-1-yl}sulfonyl)thien-2-yl]methyl)benzamide;

N- { [5- ({4- [benzyl (methyl) amino] piperidin-1-yl} sulfonyl) thien-2-yl] methyl } -4-chlorobenzamide;

4-chloro-N- { [5- ({4- [3- (2,4-dichlorophenyl)-1H-pyrazol-5-yl] piperidin-1-yl} sulfonyl) thien-2-yl] methyl } benzamide;

4-chloro-N- [(5- { [4- (5-thien-2-yl-1H-pyrazol-3-yl) piperidin-1-yl] sulfonyl } thien-2-yl) methyl ] benzamide;

4-chloro-N- [(5- { [4- (2,3,4,5,6-pentamethylbenzoyl) piperidin-1-yl] sulfonyl } thien-2-yl) methyl ] benzamide;

~~4-chloro-N- [(5- { [4- (phenylacetyl) 1,4-diazepan-1-yl] sulfonyl } thien-2-yl) methyl ] benzamide;~~

4-chloro-N- { [5- ({4- [5- (4-methoxyphenyl)-1H-pyrazol-3-yl] piperidin-1-yl} sulfonyl) thien-2-yl] methyl } benzamide;

N- {5- [(4-anilinopiperidin-1-yl) sulfonyl] thien-2-yl} methyl } -4-chlorobenzamide;

~~4-chloro-N- [(5- { [4- (3-phenyl-1,2,4-thiadiazol-5-yl) piperazin-1-yl] sulfonyl } thien-2-yl) methyl ] benzamide;~~

4-chloro-N- [(5- { [4- (2-phenylethyl) piperidin-1-yl] sulfonyl } thien-2-yl) methyl ] benzamide;

~~4-chloro-N- [(5- { (4-heptylpiperazin-1-yl) sulfonyl } thien-2-yl) methyl ] benzamide;~~

~~4-chloro-N- [(5- { (4-octylpiperazin-1-yl) sulfonyl } thien-2-yl) methyl ] benzamide;~~

N- [(5- { [4- (1H-1,2,3-benzotriazol-1-yl) piperidin-1-yl] sulfonyl } thien-2-yl) methyl ] -4-chlorobenzamide;

2- (5- { [4- (1H-1,2,3-benzotriazol-1-yl) piperidin-1-yl] sulfonyl } thien-2-yl) -N- (4-chlorophenyl) acetamide;

2- {1- [(5- { [(4-chlorobenzoyl) amino] methyl } thien-2-yl) sulfonyl ] piperidin-4-yl } -2H-1,2,3-benzotriazole-5-carboxylic acid;

4-chloro-N-[(5-{[4-(5-chloro-1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;  
methyl 1-{1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-yl}-1H-1,2,3-benzotriazole-5-carboxylate;  
methyl 1-{1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-yl}-2H-1,2,3-benzotriazole-6-carboxylate;  
methyl 2-{1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-yl}-2H-1,2,3-benzotriazole-5-carboxylate;  
4-chloro-N-[(5-{[4-(6-chloro-1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;  
4-chloro-N-{[5-({4-[5-(trifluoromethyl)-1H-1,2,3-benzotriazol-1-yl]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide;  
N-[(5-{[4-(7-aza-1H-benzimidazol-1-yl)piperidin-1-yl}sulfonyl)thien-2-yl)methyl]-4-chlorobenzamide;  
1-{1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-yl}-1H-1,2,3-benzotriazole-5-carboxylic acid;  
1-{1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-yl}-1H-1,2,3-benzotriazole-6-carboxylic acid;  
N-[(5-{[4-(2-amino-9H-purin-9-yl)piperidin-1-yl}sulfonyl)thien-2-yl)methyl]-4-chlorobenzamide;  
4-chloro-N-[(5-{[4-(9H-purin-9-yl)piperidin-1-yl}sulfonyl)thien-2-yl)methyl]benzamide;  
N-[(5-{[4-(6-amino-9H-purin-9-yl)piperidin-1-yl}sulfonyl)thien-2-yl)methyl]-4-chlorobenzamide;  
4-chloro-N-({5-[(4-{6-nitro-1H-benzimidazol-1-yl)piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide;

4-chloro-N-({5-[{4-{5-nitro-1H-benzimidazol-1-yl}piperidin-1-yl}sulfonyl]thien-2-yl}methyl)benzamide;

4-chloro-N-[(5-{[4-(2H-1,2,3-triazol-2-yl)piperidin-1-yl}sulfonyl]thien-2-yl)methyl]benzamide;

N-[(5-{[4-(1H-benzimidazol-1-yl)piperidin-1-yl}sulfonyl]thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-{{5-({4-[3-propylanilino]piperidin-1-yl}sulfonyl)thien-2-yl}methyl}benzamide;

4-chloro-N-{{5-({4-[3-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl}methyl}benzamide;

4-chloro-N-{{5-({4-[3-(dimethylamino)anilino]piperidin-1-yl}sulfonyl)thien-2-yl}methyl}benzamide;

methyl 3-({1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl}sulfonyl]piperidin-4-yl}amino)-benzoate;

4-chloro-N-{{5-({4-[3-(methylsulfanyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl}methyl}benzamide;

4-chloro-N-{{5-[{4-{3-nitroanilino}piperidin-1-yl}sulfonyl]thien-2-yl}methyl}benzamide;

4-chloro-N-[(5-{[4-(2-methoxyanilino)piperidin-1-yl}sulfonyl]thien-2-yl)methyl]benzamide;

3-({1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl}sulfonyl]piperidin-4-yl}amino)benzamide;

4-chloro-N-{{5-({4-[2-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl}methyl}benzamide;

4-chloro-N-{{5-[(4-{2-nitro-4-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl}sulfonyl]thien-2-yl}methyl}benzamide;

4-chloro-N-[ (5-{ [4-(4-chloroanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[ 5-{ {4-[ (trifluoromethyl)anilino]piperidin-1-yl}sulfonyl}thien-2-yl]methyl]benzamide;

4-chloro-N-({5-[(4-[ (trifluoromethyl)sulfonyl]anilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-({5-[(4-{2-nitroanilino}piperidin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide;

N-{ [5-{ {4-[ (aminocarbonyl)anilino]piperidin-1-yl}sulfonyl}thien-2-yl]methyl}-4-chlorobenzamide;

4-chloro-N-[ 5-{ {4-[4-(1,3-dithiolan-2-yl)anilino]piperidin-1-yl}sulfonyl}thien-2-yl]methyl]benzamide;

N-[(5-{ [4-(3-chloroanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide;

4-chloro-N-[ (5-{ [4-(3-chloroanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{ [4-(3-methoxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-{ [5-{ {4-[3-(methylsulfonyl)anilino]piperidin-1-yl}sulfonyl}thien-2-yl]methyl}benzamide;

N-({5-[(4-{3-[amino(imino)methyl]anilino}piperidin-1-yl)sulfonyl}thien-2-yl]methyl}-4-chlorobenzamide;

4-chloro-N-({5-[(4-{3-[ (2-hydroxyethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl}thien-2-yl]methyl}benzamide;

N-[(5-{ [4-(2-aminoanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-[(5-{[4-(2-hydroxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(4-hydroxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-({5-[{4-(3-[(trifluoromethyl)sulfanyl]anilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(3-toluidino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-({5-[{4-[(3-chloro-5-(trifluoromethyl)pyridin-2-yl)amino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-{{5-[(4-[3-(1,3-oxazol-5-yl)anilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-{[4-(3-tert-butylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-[(5-{[4-(2-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-{{5-[(4-[(2,2-dioxido-1,3-dihydro-2-benzothien-5-yl)amino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(2,3-dihydro-1H-inden-5-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(4-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-({3-nitropyridin-2-yl})amino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-{{5-[(4-[(3-aminopyridin-2-yl)amino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl}-4-chlorobenzamide;

N-[(5-{[4-([(1,1'-biphenyl)-3-yl]amino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide;

N- [(5- { [4- (3-benzylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N- [(5- { [4- (pyrimidin-2-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N- { [5- ({4- [4- (morpholin-4-ylsulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl}benzamide;

4-chloro-N- {(5- [(4- { [4- (trifluoromethyl)pyrimidin-2-yl]amino)piperidin-1-yl]sulfonyl)thien-2-yl]methyl}benzamide;

4-chloro-N- [(5- { [4- (3-cyclohexyl-4-hydroxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N- ({5- [(4- {3- [(butylamino)sulfonyl]anilino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl)-4-chlorobenzamide;

4-chloro-N- [(5- { [4- (3-ethylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N- [(5- { [4- (5,6,7,8-tetrahydronaphthalen-1-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N- { [5- ({4- [3- (aminosulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl}-4-chlorobenzamide;

4-chloro-N- [(5- { [4- (quinolin-5-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N- [(5- { [4- (quinolin-8-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-Chloro-N- [(5- { [4- (3-propylphenoxy)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N- { [5- ({4- [(2E)-3-phenylprop-2-enoyl]piperazin-1-yl}sulfonyl)thien-2-yl]methyl}benzamide;

4-chloro-N- { [5- ({4- [4-nitrobenzoyl]piperazin-1-yl}sulfonyl)thien-2-yl]methyl}benzamide;

~~N ((5 ((4 benzoylpiperazin 1 yl)sulfonyl)thien 2 yl)methyl) 4 chlorebenzamide;~~

~~4 chlore N ((5 ((4 [4 (trifluoromethyl)benzoyl)piperazin 1 yl)sulfonyl)thien 2 yl)methyl)benzamide;~~

~~4 chlore N ((5 ((4 [4 (dimethylamino)benzoyl)piperazin 1 yl)sulfonyl)thien 2 yl)methyl)benzamide;~~

~~4 chlore N ((5 ((4 (2 fluorobenzoyl)piperazin 1 yl)sulfonyl)thien 2 yl)methyl)benzamide;~~

~~4 chlore N ((5 ((4 (2,6 difluorobenzoyl)piperazin 1 yl)sulfonyl)thien 2 yl)methyl)benzamide;~~

~~4 chlore N ((5 ((4 (3 fluorobenzoyl)piperazin 1 yl)sulfonyl)thien 2 yl)methyl)benzamide;~~

~~4 chlore N ((5 ((4 (2 naphthoyl)piperazin 1 yl)sulfonyl)thien 2 yl)methyl)benzamide;~~

~~4 chlore N ((5 ((4 (1 naphthoyl)piperazin 1 yl)sulfonyl)thien 2 yl)methyl)benzamide;~~

~~4 chlore N ((5 ((4 (2 nitrobenzoyl)piperazin 1 yl)sulfonyl)thien 2 yl)methyl)benzamide;~~

~~4 chlore N ((5 ((4 (pyridin 3 ylcarbonyl)piperazin 1 yl)sulfonyl)thien 2 yl)methyl)benzamide;~~

~~N ((5 ((4 (2,1,3 benzoxadiazol 5 ylcarbonyl)piperazin 1 yl)sulfonyl)thien 2 yl)methyl) 4 chlorebenzamide;~~

~~4 chlore N ((5 ((4 (2,4 difluorobenzoyl)piperazin 1 yl)sulfonyl)thien 2 yl)methyl)benzamide;~~

~~4 chlore N ((5 ((4 (2,4,6 trifluorobenzoyl)piperazin 1 yl)sulfonyl)thien 2 yl)methyl)benzamide;~~

~~4 chlore N ((5 ((4 (2,6 dichlorobenzoyl)piperazin 1 yl)sulfonyl)thien 2 yl)methyl)benzamide;~~

4-chloro-N-((5-[(4-heptanoylpiperazin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

4-chloro-N-((5-[(4-(quinolin-8-ylsulfonyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

4-nitro-N-((5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-[(5-[(4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-nitrobenzamide;

4-nitro-N-((5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-[(5-[(4-(2,4-difluorobenzoyl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-4-nitrobenzamide;

N-[(5-[(4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-4-nitrobenzamide;

N-[(5-[(4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-nitrobenzamide;

4-nitro-N-((5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-[(5-[(4-(2,4-difluorobenzoyl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-4-nitrobenzamide;

N-[(5-[(4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-4-nitrobenzamide;

3-nitro-N-((5-[(4-(3-methoxyanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

3-nitro-N-((5-[(4-[3-[(trifluoromethyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-{{[5-((4-[3-(dimethylamino)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-nitrobenzamide;

3-nitro-N-{[5-(4-[3-(methylsulfonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl]methyl}benzamide;

3-nitro-N-{[5-(4-[3-(methylsulfanyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl]methyl}benzamide;

N-{[5-(4-[3-(aminosulfonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-nitrobenzamide;

methyl 3-{[1-([5-((3-nitrobenzoyl)amino)methyl]-thien-2-yl)sulfonyl]-piperidin-4-yl]amino}benzoate;

N-{[5-(4-[3-(aminocarbonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-nitrobenzamide;

3-nitro-N-{[5-[(4-{3-nitroanilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

3-nitro-N-{[5-[(4-(2-methoxyanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

3-nitro-N-{[5-(4-[2-(trifluoromethyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl]methyl}benzamide;

3-nitro-N-{[5-[(4-{2-nitroanilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

N-[(5-{[4-(4-chloroanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-nitrobenzamide;

3-nitro-N-{[5-(4-[4-(trifluoromethyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl]methyl}benzamide;

3-nitro-N-{[5-[(4-{4-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

N-{[5-(4-[4-(aminocarbonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-nitrobenzamide;

N-[(5-{[4-(3-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide;  
N-[(5-{[4-(3-chloroanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide;  
4-nitro-N-[(5-{[4-(3-methoxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;  
4-nitro-N-{[5-({4-[3-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl}benzamide;  
N-{[5-({4-[3-(dimethylamino)anilino]anilino}piperidin-1-yl)sulfonyl]thien-2-yl}methyl}-4-nitrobenzamide;  
4-nitro-N-[(5-{[4-(3-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;  
4-nitro-N-{[5-({4-[3-(methylsulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl}benzamide;  
4-nitro-N-{[5-({4-[3-(methylsulfanyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl}benzamide;  
N-{[5-({4-[3-(aminosulfonyl)anilino]anilino}piperidin-1-yl)sulfonyl]thien-2-yl}methyl}-4-nitrobenzamide;  
methyl 3-{[1-({5-[(4-nitrobenzoyl)amino]methyl}thien-2-yl)sulfonyl)piperidin-4-yl]amino}benzoate;  
3-{[1-({5-[(4-nitrobenzoyl)amino]methyl}thien-2-yl)sulfonyl)piperidin-4-yl]amino}benzamide;  
4-nitro-N-[(5-{(4-{3-nitroanilino}piperidin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide;  
4-nitro-N-[(5-{[4-(2-methoxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;  
4-nitro-N-{[5-({4-[2-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl}benzamide;

4-nitro-N-({5-[(4-{2-nitroanilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-[(5-{[4-(4-chloroanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-4-nitrobenzamide;

4-nitro-N-{[5-({4-[4-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide;

4-nitro-N-({5-[(4-{4-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

N-{[5-({4-[4-(aminocarbonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}-4-nitrobenzamide;

N-{[5-({4-[4-(1,3-dithiolan-2-yl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}-4-nitrobenzamide;

N-({5-[(4-{3-[amino(imino)methyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-nitrobenzamide;

N-({5-[(4-{3-[(2-hydroxyethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-nitrobenzamide;

N-({5-[(4-{3-[(2-hydroxyethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-nitrobenzamide;

N-({5-[(4-anilinopiperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-nitrobenzamide;

N-({5-[(4-{3-[amino(imino)methyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-nitrobenzamide;

3-nitro-N-({5-[(4-{3-[(trifluoromethyl)sulfanyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-nitro-N-({5-[(4-{3-[  
[(trifluoromethyl)sulfanyl]anilino}piperidin-1-  
yl)sulfonyl]thien-2-yl)methyl]benzamide;  
3-nitro-N-[(5-{[4-(3-nitropyridin-2-  
yl)amino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;  
N-{[5-({4-[(2,2-dioxido-1,3-dihydro-2-benzothien-5-  
yl)amino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-  
nitrobenzamide;  
N-[(5-{[4-(2,3-dihydro-1H-inden-5-ylamino)piperidin-  
1-yl)sulfonyl]thien-2-yl)methyl]-3-nitrobenzamide;  
3-nitro-N-[(5-{[4-(2-propylanilino)piperidin-1-  
yl)sulfonyl]thien-2-yl)methyl]benzamide;  
3-nitro-N-[(5-{[4-(4-propylanilino)piperidin-1-  
yl)sulfonyl]thien-2-yl)methyl]benzamide;  
N-[(5-{[4-(3-tert-butylanilino)piperidin-1-  
yl)sulfonyl]thien-2-yl)methyl]-3-nitrobenzamide;  
3-nitro-N-{{5-[(4-[3-(1,3-oxazol-5-  
yl)anilino}piperidin-1-yl)sulfonyl]thien-2-  
yl)methyl}benzamide;  
3-nitro-N-[(5-{[4-(2-phenylethyl)piperidin-1-  
yl)sulfonyl]thien-2-yl)methyl]benzamide;  
N-({5-[(4-{[3-chloro-5-(trifluoromethyl)pyridin-2-  
yl]amino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl)-3-  
nitrobenzamide;  
N-[(5-{[4-([1,1'-biphenyl]-3-ylamino)piperidin-1-  
yl)sulfonyl]thien-2-yl)methyl]-3-nitrobenzamide;  
N-[(5-{[4-(3-benzylanilino)piperidin-1-  
yl)sulfonyl]thien-2-yl)methyl]-3-nitrobenzamide;  
3-nitro-N-{{5-[(4-[3-(morpholin-4-  
ylsulfonyl)anilino}piperidin-1-yl)sulfonyl]thien-2-  
yl)methyl}benzamide;

3-nitro-N-[(5-{[4-(3-propylphenoxy)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-nitro-N-[(5-{[4-(pyrimidin-2-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-({4-[(3-aminopyridin-2-yl)amino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl]-4-nitrobenzamide;

4-nitro-N-[(5-{[4-(3-nitropyridin-2-yl)amino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl]benzamide;

N-[(5-{[4-(2,3-dihydro-1H-inden-5-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide;

4-nitro-N-[(5-{[4-(2-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-nitro-N-[(5-{[4-(4-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-{[4-(3-tert-butylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide;

4-nitro-N-[(5-{[4-[3-(1,3-oxazol-5-yl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl]benzamide;

4-nitro-N-[(5-{[4-(2-phenylethyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-[(4-{[3-chloro-5-(trifluoromethyl)pyridin-2-yl]amino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-4-nitrobenzamide;

N-[(5-{[4-([1,1'-biphenyl]-3-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide;

N-[(5-{[4-(3-benzylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide;

4-nitro-N-[(5-{[4-[3-(morpholin-4-ylsulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl]benzamide;

N- [(5-{[4-(2-aminoanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide;  
3-nitro-N- [(5-{[4-(pyrimidin-2-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;  
N- {[5-({4-[(3-aminopyridin-2-yl)amino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl}-3-nitrobenzamide;  
N- ({5-[(4-{2-nitro-4-[(trifluoromethyl)sulfonyl]anilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl}-3-methoxybenzamide;  
~~3-nitro-N- [(5-{[4-(3-phenylpropyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;~~  
3-nitro-N- ({5-[(4-{[4-(trifluoromethyl)pyrimidin-2-yl]amino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;  
N- [(5-{[4-(3-cyclohexyl-4-hydroxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide;  
N- ({5-[(4-{3-[(butylamino)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-nitrobenzamide;  
N- [(5-{[4-(3-ethylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide;  
3-nitro-N- [(5-{[4-(5,6,7,8-tetrahydronaphthalen-1-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;  
4-nitro-N- [(5-{[4-(3-propylphenoxy)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;  
N- [(5-{[4-(2,4-difluorobenzoyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide;  
N- [(5-{[4-(2,4-difluorobenzoyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;  
2-Hydroxy-N- ({5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

N-[(5-[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl)thien-2-yl)methyl]-3-methoxybenzamide;

N-[(5-[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl)thien-2-yl)methyl]-2-hydroxybenzamide;

N-{[5-({4-[4-(1,3-dithiolan-2-yl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}-3-nitrobenzamide;

3-methoxy-N-[(5-[4-(3-methoxyanilino)piperidin-1-yl]sulfonyl)thien-2-yl)methyl]benzamide;

3-methoxy-N-{[5-({4-[3-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide;

N-{[5-({4-[3-(dimethylamino)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}-3-methoxybenzamide;

3-methoxy-N-[(5-[4-(3-propylanilino)piperidin-1-yl]sulfonyl)thien-2-yl)methyl]benzamide;

3-methoxy-N-{[5-({4-[3-(methylsulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide;

3-methoxy-N-{[5-({4-[3-(methylsulfanyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide;

N-{[5-({4-[3-(aminosulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}-3-methoxybenzamide;

methyl 3-((1-[(5-[{(3-methoxybenzoyl)amino]-methyl}thien-2-yl)sulfonyl]piperidin-4-yl)amino)-benzoate;

N-{[5-({4-[3-(aminocarbonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}-3-methoxybenzamide;

3-methoxy-N-[(5-[{4-(2-methoxyanilino)piperidin-1-yl}sulfonyl)thien-2-yl)methyl]benzamide;

N-((5-[(4-{3-nitroanilino}piperidin-1-yl)sulfonyl)thien-2-yl)methyl)-3-methoxybenzamide;

3-methoxy-N-[5-({4-[2-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl]benzamide;  
N-({5-[(4-{2-nitroanilino}piperidin-1-yl)sulfonyl]thien-2-yl}methyl)-3-methoxybenzamide;  
N-[{5-({4-[4-(aminocarbonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl}methyl]-3-methoxybenzamide;  
N-[{5-({4-[4-(1,3-dithiolan-2-yl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl}methyl]-3-methoxybenzamide;  
N-[(5-{[4-(3-chloroanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;  
N-[(5-{[4-(4-chloroanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;  
3-methoxy-N-({5-[(4-{4-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide;  
N-({5-[(4-{3-[amino(imino)methyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl}methyl)-3-methoxybenzamide;  
N-({5-[(4-{3-[2-hydroxyethyl]sulfonyl}anilino)piperidin-1-yl}sulfonyl]thien-2-yl}methyl)-3-methoxybenzamide;  
3-methoxy-N-({5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide;  
N-({5-[(4-anilinopiperidin-1-yl)sulfonyl]thien-2-yl}methyl)-3-methoxybenzamide;  
3-methoxy-N-({5-[(4-{3-[(trifluoromethyl)sulfanyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl}methyl)benzamide;  
N-[(5-{[4-(4-hydroxyanilino)piperidin-1-yl}sulfonyl]thien-2-yl)methyl]-3-methoxybenzamide;

3-nitro-N-({5-[{4-{3-[{(trifluoromethyl)sulfanyl]anilino}piperidin-1-yl]sulfonyl}thien-2-yl}methyl]benzamide;

4-nitro-N-({5-[{4-{3-[{(trifluoromethyl)sulfanyl]anilino}piperidin-1-yl]sulfonyl}thien-2-yl}methyl]benzamide;

N-[(5-[{4-(2-hydroxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

3-methoxy-N-[(5-[{4-(pyrimidin-2-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-{{5-[{4-[(3-aminopyridin-2-yl)amino]piperidin-1-yl}sulfonyl}thien-2-yl)methyl}-3-methoxybenzamide;

N-[(5-[{4-[(3-nitropyridin-2-yl)amino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

N-{{5-[{4-[(2,2-dioxido-1,3-dihydro-2-benzothien-5-yl)amino]piperidin-1-yl}sulfonyl}thien-2-yl)methyl}-3-methoxybenzamide;

N-[(5-[{4-(2,3-dihydro-1H-inden-5-ylamino)piperidin-1-yl}sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

3-methoxy-N-[(5-[{4-(2-propylanilino)piperidin-1-yl}sulfonyl}thien-2-yl)methyl]benzamide;

3-methoxy-N-[(5-[{4-(4-propylanilino)piperidin-1-yl}sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-[{4-(3-tert-butylanilino)piperidin-1-yl}sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

N-({5-[{4-[(3-chloro-5-(trifluoromethyl)pyridin-2-yl)amino]piperidin-1-yl}sulfonyl}thien-2-yl)methyl)-3-methoxybenzamide;

3-methoxy-N-{{5-[{4-[3-(1,3-oxazol-5-yl)anilino]piperidin-1-yl}sulfonyl}thien-2-yl)methyl}benzamide;

N-[(5-{[4-([1,1'-biphenyl]-3-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

3-methoxy-N-[(5-{[4-(3-propylphenoxy)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

3-methoxy-N-[(5-({4-[3-(morpholin-4-ylsulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl]benzamide;

3-methoxy-N-[(5-{[4-(2-phenylethyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-{[4-(3-benzylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

~~3-methoxy-N-[(5-([4-(3-phenylpropyl)piperazin-1-yl]sulfonyl)thien-2-yl)methyl]benzamide;~~

3-methoxy-N-[(5-[(4-{[4-(trifluoromethyl)pyrimidin-2-yl]amino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

N-[(5-{[4-(3-cyclohexyl-4-hydroxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

N-[(5-[(4-{3-[(butylamino)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-methoxybenzamide;

N-[(5-{[4-(3-ethylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

3-methoxy-N-[(5-{[4-(5,6,7,8-tetrahydronaphthalen-1-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-5-nitro-1H-pyrazole-3-carboxamide;

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-2-oxo-1,2-dihydropyridine-3-carboxamide;

N- [(5- { [4- (1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-2-thioxo-1,2-dihydropyridine-3-carboxamide;

N- [(5- { [4- (1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3,4-dihydroxybenzamide;

N- [(5- { [4- (1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]pyridine-2-carboxamide;

N- [(5- { [4- (hexyloxy)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

N- [(5- [(4-heptanoylpiperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-methoxybenzamide;

4-chloro-N- [(5- { [4- (3-propylanilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide;

4-chloro-N- [(5- { [4- (3-chloroanilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide;

4-chloro-N- [(5- { [4- (3-methoxyanilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide;

4-chloro-N- { [5- ({4- [3-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)-2-furyl)methyl]benzamide;

4-chloro-N- { [5- ({4- [3-(dimethylamino)anilino]piperidin-1-yl}sulfonyl)-2-furyl)methyl]benzamide;

4-chloro-N- { [5- ({4- [3-(methylsulfonyl)anilino]piperidin-1-yl}sulfonyl)-2-furyl)methyl]benzamide;

4-chloro-N- { [5- ({4- [3-(methylsulfanyl)anilino]piperidin-1-yl}sulfonyl)-2-furyl)methyl]benzamide;

N- { [5- ({4- [3-(aminosulfonyl)anilino]piperidin-1-yl}sulfonyl)-2-furyl)methyl]-4-chlorobenzamide;

methyl 3-({1-[{5-[(4-chlorobenzoyl)amino]methyl}-2-furyl]sulfonyl}piperidin-4-yl}amino)benzoate;

3-({1-[{5-[(4-chlorobenzoyl)amino]methyl}-2-furyl]sulfonyl}piperidin-4-yl}amino)benzamide;

4-chloro-N-({5-[(4-{3-nitroanilino}piperidin-1-yl)sulfonyl]-2-furyl}methyl)benzamide;

4-chloro-N-[(5-{[4-(2-methoxyanilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide;

4-chloro-N-{[5-({4-[2-(trifluoromethyl)anilino}piperidin-1-yl)sulfonyl]-2-furyl)methyl}benzamide;

4-chloro-N-({5-[(4-{2-nitroanilino}piperidin-1-yl)sulfonyl]-2-furyl}methyl)benzamide;

4-chloro-N-[(5-{[4-(4-chloroanilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide;

4-chloro-N-{[5-({4-[4-(trifluoromethyl)anilino}piperidin-1-yl)sulfonyl]-2-furyl)methyl}benzamide;

4-chloro-N-({5-[(4-{(trifluoromethyl)sulfonyl}anilino)piperidin-1-yl)sulfonyl]-2-furyl)methyl)benzamide;

N-{[5-({4-[4-(aminocarbonyl)anilino}piperidin-1-yl)sulfonyl]-2-furyl}methyl}-4-chlorobenzamide;

4-chloro-N-{[5-({4-[4-(1,3-dithiolan-2-yl)anilino}piperidin-1-yl)sulfonyl]-2-furyl)methyl}benzamide;

N-({5-[(4-{3-[amino(imino)methyl}anilino}piperidin-1-yl)sulfonyl]-2-furyl}methyl)-4-chlorobenzamide;

4-chloro-N-({5-[(4-{3-[(trifluoromethyl)sulfonyl}anilino}piperidin-1-yl)sulfonyl]-2-furyl)methyl}benzamide;

N-({5-[(4-anilinopiperidin-1-yl)sulfonyl]-2-furyl}methyl)-4-chlorobenzamide; and

4-nitro-N-({5-[{4-[{3-[{  
[(trifluoromethyl)sulfanyl]anilino}piperidin-1-yl]sulfonyl]2-  
furyl}methyl)benzamide;

~~4-chloro-N-({5-[{3-[{~~  
~~[(trifluoromethyl)sulfonyl]anilino}pyrrolidin-1-  
yl]sulfonyl]thien-2-yl)methyl)benzamide; and~~  
~~4-chloro-N-({5-[{4-[{3-[{~~  
~~[(trifluoromethyl)sulfonyl]anilino}azepan-1-yl]sulfonyl]thien-  
2-yl)methyl)benzamide.~~

12. (Currently Amended) A sulfonamide derivative compound according to claim 11, which is selected from the group consisting of:

4-chloro-N-[(5-[{4-(2,4-difluorobenzoyl)piperidin-1-  
yl]sulfonyl]thien-2-yl)methyl]benzamide;

~~4-chloro-N-[(5-[{4-(phenylacetyl)-1,4-diazepan-1-  
yl]sulfonyl]thien-2-yl)methyl]benzamide;~~

N-({5-[{4-anilinopiperidin-1-yl]sulfonyl]thien-2-  
yl)methyl}-4-chlorobenzamide;

N-[(5-[{4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-  
yl]sulfonyl]thien-2-yl)methyl]-4-chlorobenzamide;

N-[(5-[{4-(1H-benzimidazol-1-yl)piperidin-1-  
yl]sulfonyl]thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-{[5-({4-[3-propylanilino]piperidin-1-  
yl]sulfonyl]thien-2-yl)methyl]benzamide;

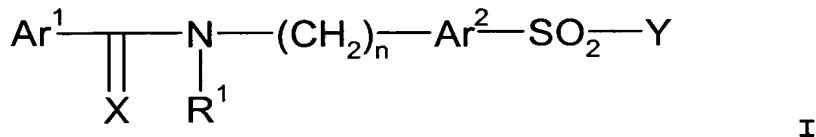
4-chloro-N-[(5-[{4-(4-chloroanilino)piperidin-1-  
yl]sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-({5-[{4-[{3-[{(2-  
hydroxyethyl)sulfonyl]anilino}piperidin-1-yl]sulfonyl]thien-2-  
yl)methyl)benzamide;

N-{[5-({4-[3-(aminosulfonyl)anilino]piperidin-1-  
yl]sulfonyl]thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-[(5-[4-(1-naphthoyl)piperazin-1-yl]sulfonyl)thien-2-yl)methyl]benzamide;  
4-nitro-N-[(5-{[4-(3-methoxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;  
methyl 3-{[1-({5-[(4-nitrobenzoyl)amino)methyl]thien-2-yl}sulfonyl)piperidin-4-yl]amino}benzoate;  
N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-2-hydroxybenzamide; and  
N-({5-[(4-{2-nitroanilino)piperidin-1-yl}sulfonyl]thien-2-yl)methyl}-3-methoxybenzamide.

13. (Currently Amended) A method for the modulation of the JNK pathway, comprising administering an effective amount of a sulfonamide derivative compound according to formula I



wherein Ar<sup>1</sup> and Ar<sup>2</sup> are independently from each other substituted or unsubstituted aryl or heteroaryl groups;

X is O or S, preferably O;

R<sup>1</sup> is hydrogen or a C<sub>1</sub>-C<sub>6</sub>-alkyl group, or R<sup>1</sup> forms a substituted or unsubstituted 5-6-membered saturated or unsaturated ring with Ar<sup>1</sup>;

n is an integer from 0 to 5, preferably between 1-3 and most preferred 1;

Y within formula I is an unsubstituted or a substituted 4-12-membered saturated cyclic or bicyclic alkyl containing at least one nitrogen atom, whereby one nitrogen

atom within said ring is forming a bond with the sulfonyl group of formula I thus providing a sulfonamide.

14. (Currently Amended) A method according to claim 13 for the treatment ~~or prevention~~ of disorders associated with the abnormal expression or activity of JNK.

15. (Currently Amended) A method according to claim 14 for the treatment ~~or prevention~~ of disorders associated with abnormal expression or activity of JNK2 and/or 3.

16. (Currently Amended) A method ~~in accordance~~ with claim 13 for the treatment of neuronal disorders comprising administering to a patient in need thereof an effective amount of a sulfonamide derivative compound according to said formula I in claim 1.

17. (Currently Amended) A method ~~in accordance~~ with claim 13 for the treatment of autoimmune diseases comprising administering to a patient in need thereof an effective amount of a sulfonamide derivative compound according to said formula I in claim 13.

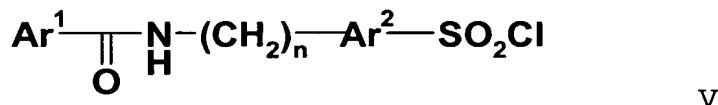
18. (Currently Amended) A method ~~in accordance~~ with claim 13 for the treatment of cancer comprising administering to a patient in need thereof an effective amount of a sulfonamide derivative compound according to said formula I in claim 13.

19. (Currently Amended) A method ~~in accordance~~ with claim 13 for the treatment of cardiovascular diseases comprising administering to a patient in need thereof an

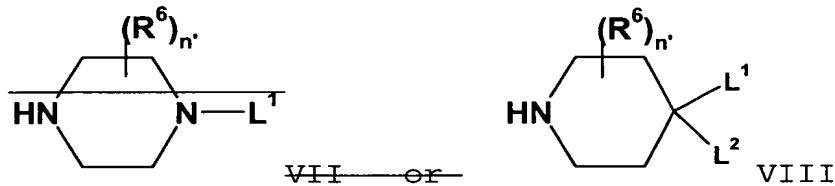
effective amount of a sulfonamide derivative compound  
according to said formula I in claim 13.

20. (Currently Amended) A pharmaceutical composition containing at least one sulfonamide derivative compound according to claim 2-1 and a pharmaceutically acceptable carrier, diluent or excipient.

21. (Currently Amended) Process for the preparation of a sulfonamide derivative compound according to claim 1, comprising reacting a sulfonyl chloride V



with an amine VII or VIII



whereby  $(\text{R}^6)_n$ ,  $\text{L}^1$  and  $\text{L}^2$  are as above-defined in claim 1.

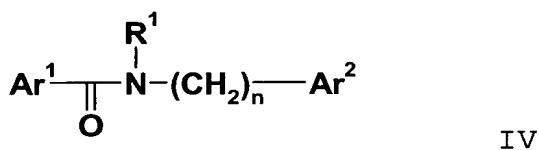
22. (Currently Amended) A process according to claim 21, wherein said sulfonyl chloride V is obtained by  
a) coupling an amine of formula II:



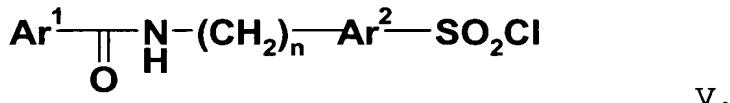
where  $\text{Ar}^2$  and  $\text{R}^1$  are as defined above in claim 1, with an acyl chloride of formula III:



where  $\text{Ar}^1$  is as defined above in claim 1, to provide an amide of formula IV:



b) sulfonating the amide of formula IV to provide a sulfonyl chloride V



23. (Previously Presented) A method in accordance with claim 16, wherein said neuronal disorder is selected from the group consisting of epilepsy, Alzheimer's disease, Huntington's disease, Parkinson's disease, retinal diseases, spinal cord injury, and head trauma.

24. (Previously Presented) A method in accordance with claim 17, wherein said autoimmune disease is selected from the group consisting of multiple sclerosis, inflammatory bowel disease (IBD), rheumatoid arthritis, asthma, septic shock, and transplant rejection.

25. (Previously Presented) A method in accordance with claim 18, wherein said cancer is selected from the group consisting of breast-, colorectal-, and pancreatic cancer.

26. (Previously Presented) A method in accordance with claim 19, wherein said cardiovascular disease is selected from the group consisting of stroke, arteriosclerosis, myocardial infarction, and myocardial reperfusion injury.

27. (New) Sulfonamide compounds according to claim 1 wherein n is an integer of from 1 to 3.

28. (New) Sulfonamide compounds according to claim 27 wherein n is 1.

29. (New) Sulfonamide compounds according to claim 2 wherein n is an integer of from 1 to 3.

30. (New) Sulfonamide compounds according to claim 29 wherein n is 1.

31. (New) Sulfonamide compounds according to claim 3 wherein n is 1 or 2.

32. (New) The method according to claim 13 wherein X is O.

33. (New) The method according to claim 13 wherein n is an integer of from 1 to 3.

34. (New) The method according to claim 33 wherein n is 1.

35. (New) The sulfonamide compound according to claim 5 wherein the C<sub>1</sub>-C<sub>4</sub> alkyl group is trihalomethyl.

36. (New) The sulfonamide compound according to claim 10 wherein L1 is a triazole ring which is fused with an unsubstituted or substituted aryl or heteroaryl.

37. (New) A method for treating diseases or disorders which are mediated by the JNK function or pathways comprising administering to a patient in need thereof a compound according to claim 1 that inhibits the JNK function of pathways.

38. (New) The method according to claim 37 wherein the disease or disorder is a neuronal disorder selected from the group consisting of epilepsy, Alzheimer's disease, Huntington's disease, Parkinson's disease, retinal diseases, spinal cord injury, and head trauma.

39. (New) The method according to claim 37 wherein the disease is an autoimmune disease selected from the group consisting of multiple sclerosis, inflammatory bowel disease (IBD), rheumatoid arthritis, asthma, septic shock, and transplant rejection.

40. (New) The method according to claim 37 wherein the disease is cancer selected from the group consisting of breast, colorectal, and pancreatic cancer.

41. (New) The method according to claim 37 wherein the disease is a cardiovascular disease selected from the group consisting of stroke, arteriosclerosis, myocardial infarction, and myocardial reperfusion injury.